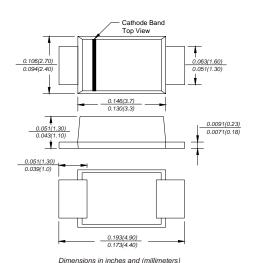


SS52F THRU SS5200F

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 Volts Forward Current - 5.0 Ampere

SMAF



FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC SMAF molded plastic body Terminals: leads solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0018 ounce, 0.064 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

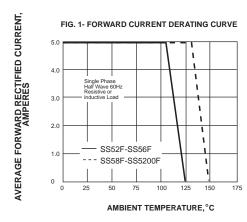
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

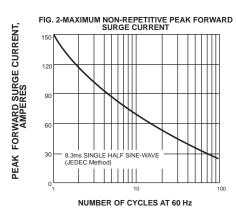
SYMBOLS	SS52F	SS53F	SS54F	SS55F	SS56F	SS58F	SSS510I	SS5150F	SS5200F	UNITS
Vrrm	20	30	40	50	60	80	100	150	200	VOLTS
VRMS	14	21	28	35	42	56	70	105	140	VOLTS
VDC	20	30	40	50	60	80	100	150	200	VOLTS
5.0								Amn		
I(AV)	5.0									Amp
Ігѕм	IFSM 150.0								Amps	
VF	0.55			0.70			0.85		0.95	Volts
	0.5 0.2									mA
IR	20.0 10						10	2.0		111/1
C¹	200								pF	
Rθja	50.0								°C/W	
TJ,	-50 to +125 -50 to +150							°C		
Тѕтс	-50 to +150								°C	
	VRRM VRMS VDC I(AV) IFSM VF IR CJ RθJA TJ,	VRRM 20 VRMS 14 VDC 20 I(AV) IFSM VF IR CJ RθJA TJ,	V _{RRM} 20 30 V _{RMS} 14 21 V _{DC} 20 30 I(AV) IFSM VF 0.55 IR CJ RθJA TJ, -5	V _{RRM} 20 30 40 V _{RMS} 14 21 28 V _{DC} 20 30 40 I(AV) IFSM VF 0.55 IR CJ Reja TJ, -50 to +	V _{RRM} 20 30 40 50 V _{RMS} 14 21 28 35 V _{DC} 20 30 40 50 I(AV) IFSM VF 0.55 IR 0.5 CJ RθJA TJ, -50 to +125	V _{RRM} 20 30 40 50 60 V _{RMS} 14 21 28 35 42 V _{DC} 20 30 40 50 60 I(AV) 5.0 I _{FSM} 150 V _F 0.55 0.70 I _R 0.5 C _J 20.0 C _J 22 RθJA 5 T _J -50 to +125	V _{RRM} 20 30 40 50 60 80 V _{RMS} 14 21 28 35 42 56 V _{DC} 20 30 40 50 60 80 I(AV) 5.0 IFSM 150.0 VF 0.55 0.70 IR 20.0 200 RθJA 50.0 TJ, -50 to +125	V _{RRM} 20 30 40 50 60 80 100 V _{RMS} 14 21 28 35 42 56 70 V _{DC} 20 30 40 50 60 80 100 I(AV) 5.0 VF 0.55 0.70 0.85 IR 20.0 10 CJ 200 200 RθJA 50.0 -50 to +125 -50 to to -50 to	V _{RRM} 20 30 40 50 60 80 100 150 V _{RMS} 14 21 28 35 42 56 70 105 V _{DC} 20 30 40 50 60 80 100 150 I(AV) 5.0 VF 0.55 0.70 0.85 IR 20.0 10 2.0 CJ 200 10 2.0 RθJA 50.0 50.0 TJ, -50 to +125 -50 to +150	VRMS

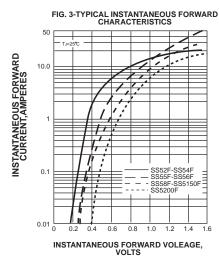
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

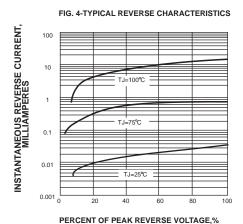


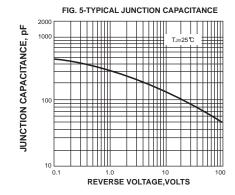
RATINGS AND CHARACTERISTIC CURVES SS52F THRU SS5200F

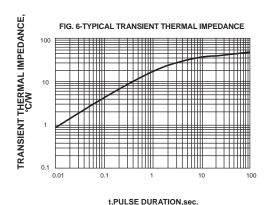












The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

